

NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION

Project Name:	Wellhead Protection
Project Cost:	\$600,000 (or \$100,000 annually)
Project Location:	Various
Project Description:	Wellhead protection as it relates to the development, implementation and administration of the citywide groundwater-related protection programs and projects.
Project Schedule:	Annual program
Project Justification:	Numerous small projects will be identified through initial program implementation including the need for new monitoring wells, water quality protection projects, and other adjustments to City facilities to reduce the contamination potential to the City wells.
Description of M&O Cost:	M&O covered in operating program. Capital improvements will increase M&O negligibly.

	2005	2006	2007	2008	2009	2010	Total 2005-2010
Total Project Cost	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$600,000
<u>Total Project Revenues:</u>							
W/WW CIP	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$600,000
<u>Ongoing M&O Costs:</u>							
<i>Staffing:</i>							
Number of FTEs	0.00						0.00
Salary/Benefit Costs	\$0						\$0
Operating Costs	0						0
Total Ongoing M&O	\$0	\$0	\$0	\$0	\$0	\$0	\$0

NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION

Project Name:	Reservoir Park Pump Station
Project Cost:	\$2,000,000
Project Location:	Reservoir Park Water Tank
Project Description:	The existing pump station and flow control facilities contain 20-year-old mechanical and electrical equipment in 5 underground vaults. This project replaces the mechanical and electrical equipment within a new building.
Project Schedule:	Design during 2006 with construction in 2007.
Project Justification:	Replace aging mechanical and electrical systems.
Description of M&O Cost:	No increased staff costs, as this is a replacement facility. Minimal operating cost increases are projected at \$1,000 annually.

	2005	2006	2007	2008	2009	2010	Total 2005-2010
Total Project Cost	\$0	\$500,000	\$1,500,000				\$2,000,000
<u>Total Project Revenues:</u>							
W/WW CIP	\$0	\$500,000	\$1,500,000				\$2,000,000
<u>Ongoing M&O Costs:</u>							
<i>Staffing:</i>							
Number of FTEs	0.00						0.00
Salary/Benefit Costs	\$0						\$0
Operating Costs	1,000	1,000	1,000	1,000	1,000	1,000	6,000
Total Ongoing M&O	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$6,000

NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION

Project Name: Water System Security Improvements

Project Cost: \$400,000

Project Location: Water reservoirs and pump stations.

Project Description: Security improvements at water facilities as recommended by the Vulnerability Assessment.

Project Schedule: Added to facilities during 2005 and 2006.

Project Justification: Lessen vulnerability of water system.

Description of M&O Cost: The cost of maintenance and monitoring of the security system ranges from \$36,000 to \$86,000 each year.

	2005	2006	2007	2008	2009	2010	Total 2005-2010
Total Project Cost	\$200,000	\$200,000					\$400,000
<u>Total Project Revenues:</u>							
W/WW CIP	\$200,000	\$200,000					\$400,000
<u>Ongoing M&O Costs:</u>							
<i>Staffing:</i>							
Number of FTEs	0.00						0.00
Salary/Benefit Costs	\$0						\$0
Operating Costs	36,000	81,000	37,080	83,430	38,192	85,933	361,635
Total Ongoing M&O	\$36,000	\$81,000	\$37,080	\$83,430	\$38,192	\$85,933	\$361,635

NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION

Project Name:	Kirkland Joint Use Water System Security Improvements
Project Cost:	\$300,000
Project Location:	Water reservoirs and pump stations.
Project Description:	Security improvements at water facilities as recommended by Vulnerability Assessment.
Project Schedule:	Add to facilities during 2005 and 2006.
Project Justification:	Lessen vulnerability of water system.
Description of M&O Cost:	Maintenance and operating costs of \$10,000 annually are paid directly by Kirkland and billed as intergovernmental charge.

	2005	2006	2007	2008	2009	2010	Total 2005-2010
Total Project Cost	\$150,000	\$150,000					\$300,000
<u>Total Project Revenues:</u>							
W/WW CIP	\$150,000	\$150,000					\$300,000
<u>Ongoing M&O Costs:</u>							
<i>Staffing:</i>							
Number of FTEs	0.00						0.00
Salary/Benefit Costs	\$0						\$0
Operating Costs	5,000	10,000	10,000	10,000	10,000	10,000	55,000
Total Ongoing M&O	\$5,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$55,000

WATER/WASTEWATER CIP PROJECT DESCRIPTION

Project Name:	Well 4 Improvements
Project Cost:	\$100,000
Project Location:	City Campus
Project Description:	Add a sand separator to remove sand being pumped from the well as well as other minor improvements.
Project Schedule:	2005
Project Justification:	The well is pumping sand which is severely impacting the chemical treatment equipment and building water systems.
Description of M&O Cost:	The sand separator will increase manpower requirements and utility costs at the facility. The manpower will be accomplished by existing FTEs.

	2005	2006	2007	2008	2009	2010	Total 2005-2010
Total Project Cost	\$100,000						\$100,000
<u>Total Project Revenues:</u>							
W/WW CIP	\$100,000						\$100,000
<u>Ongoing M&O Costs:</u>							
<i>Staffing:</i>							
Number of FTEs	0.00						0.00
Salary/Benefit Costs	\$0						\$0
Operating Costs	0						0
Total Ongoing M&O	\$0	\$0	\$0	\$0	\$0	\$0	\$0

INCREASE – WATER/WASTEWATER CIP PROJECT DESCRIPTION

Project Name: NE 83rd Street Water Improvements (Increase)

Project Cost: \$80,000 (total project cost \$100,000)

Project Location: NE 83rd Street

Project Description: Relocate existing water mains, fire hydrants, and meters serving properties adjacent to the NE 83rd Street Improvement Project.

Project Schedule: Timed coincident with the NE 83rd Street project.

Project Justification: Facilities need to be moved to accommodate the new roadway improvements and to improve maintenance access to existing facilities.

Description of M&O Cost: No increase in costs, relocation of existing facilities.

	2005	2006	2007	2008	2009	2010	Total 2005-2010
Total Project Cost	\$80,000						\$80,000
<u>Total Project Revenues:</u>							
W/WW CIP - Increase	\$80,000						\$80,000
<u>Ongoing M&O Costs:</u>							
<i>Staffing:</i>							
Number of FTEs	0.00						0.00
Salary/Benefit Costs	\$0						\$0
Operating Costs	0						0
Total Ongoing M&O	\$0	\$0	\$0	\$0	\$0	\$0	\$0

INCREASE – WATER/WASTEWATER CIP PROJECT DESCRIPTION

Project Name: Rose Hill Telemetry System Upgrades (Increase)

Project Cost: \$20,000 (total project cost \$35,000)

Project Location: Various jointly owned water tank, pump station and meter sites.

Project Description: Replace and upgrade the telemetry system for the jointly owned facilities with Kirkland.

Project Schedule: Managed and coordinated by Kirkland.

Project Justification: Existing telemetry system has become outdated.

Description of M&O Cost: No increase in FTEs required; replacement of existing facilities.

	2005	2006	2007	2008	2009	2010	Total 2005-2010
Total Project Cost				\$20,000			\$20,000
<u>Total Project Revenues:</u>							
W/WW CIP - Increase				\$20,000			\$20,000
<u>Ongoing M&O Costs:</u>							
<i>Staffing:</i>							
Number of FTEs	0.00						0.00
Salary/Benefit Costs	\$0						\$0
Operating Costs	0						0
Total Ongoing M&O	\$0	\$0	\$0	\$0	\$0	\$0	\$0

INCREASE – WATER/WASTEWATER CIP PROJECT DESCRIPTION

Project Name:	NE 87 th Street Water Main Replacement (Increase)
Project Cost:	\$107,000 (total project cost \$317,000)
Project Location:	NE 87 th Street between 148 th Avenue and Willows Road
Project Description:	Replace existing 6-inch water main with 12-inch, and coordinate with stream improvement project.
Project Schedule:	Coordinated with permitting issues of stream culvert project.
Project Justification:	Replace undersized asbestos cement water main in industrial area.
Description of M&O Cost:	No increase in FTEs required; replacement of existing facilities.

	2005	2006	2007	2008	2009	2010	Total 2005-2010
Total Project Cost	\$107,000						\$107,000
<u>Total Project Revenues:</u>							
W/WW CIP - Increase	\$107,000						\$107,000
<u>Ongoing M&O Costs:</u>							
<i>Staffing:</i>							
Number of FTEs	0.00						0.00
Salary/Benefit Costs	\$0						\$0
Operating Costs	0						0
Total Ongoing M&O	\$0	\$0	\$0	\$0	\$0	\$0	\$0

INCREASE – WATER/WASTEWATER CIP PROJECT DESCRIPTION

Project Name:	Water System Replacement Program (Increase)
Project Cost:	\$200,000 (total project cost \$2.2 million)
Project Location:	Various locations. To be established for each biennium based on maintenance priorities and coordination with other City projects.
Project Description:	Replace water system facilities.
Project Schedule:	The replacement of water system facilities is an ongoing program. \$1.1 million is being programmed for each biennium for this project.
Project Justification:	Continued program for the replacement of aging or undersized water facilities or facilities that need to be relocated as part of road improvement projects.
Description of M&O Cost:	No increase in FTEs required; replacement of existing facilities.

	2005	2006	2007	2008	2009	2010	Total 2005-2010
Total Project Cost			\$100,000		\$100,000		\$200,000
<u>Total Project Revenues:</u>							
W/WW CIP - Increase			\$100,000		\$100,000		\$200,000
<u>Ongoing M&O Costs:</u>							
<i>Staffing:</i>							
Number of FTEs	0.00						0.00
Salary/Benefit Costs	\$0						\$0
Operating Costs	0						0
Total Ongoing M&O	\$0	\$0	\$0	\$0	\$0	\$0	\$0

INCREASE – WATER/WASTEWATER CIP PROJECT DESCRIPTION

Project Name: Harper Hill Apartment Meters (Increase)

Project Cost: \$15,000 (total project cost \$90,000)

Project Location: Harper Hill Apartments

Project Description: Provide individual building meters to an apartment complex that is served by a single large meter.

Project Schedule: Planned for 2008, delayed from prior CIP.

Project Justification: Allows more accurate billing of water consumption and leak detection.

Description of M&O Cost: No significant change in maintenance and operation costs.

	2005	2006	2007	2008	2009	2010	Total 2005-2010
Total Project Cost			\$15,000				\$15,000
<u>Total Project Revenues:</u>							
W/WW CIP - Increase			\$15,000				\$15,000
<u>Ongoing M&O Costs:</u>							
<i>Staffing:</i>							
Number of FTEs	0.00						0.00
Salary/Benefit Costs	\$0						\$0
Operating Costs	0						0
Total Ongoing M&O	\$0	\$0	\$0	\$0	\$0	\$0	\$0

INCREASE – WATER/WASTEWATER CIP PROJECT DESCRIPTION

Project Name: Sunpointe Village Apartment Meters (Increase)

Project Cost: \$15,000 (total project cost \$90,000)

Project Location: Sunpointe Village Apartments

Project Description: Provide individual building meters to an apartment complex that is served by a single large meter.

Project Schedule: Planned for 2008, delayed from prior CIP.

Project Justification: Allows more accurate billing of water consumption and leak detection.

Description of M&O Cost: No significant change in maintenance and operation costs.

	2005	2006	2007	2008	2009	2010	Total 2005-2010
Total Project Cost			\$15,000				\$15,000
<u>Total Project Revenues:</u>							
W/WW CIP - Increase			\$15,000				\$15,000
<u>Ongoing M&O Costs:</u>							
<i>Staffing:</i>							
Number of FTEs	0.00						0.00
Salary/Benefit Costs	\$0						\$0
Operating Costs	0						0
Total Ongoing M&O	\$0	\$0	\$0	\$0	\$0	\$0	\$0

INCREASE – WATER/WASTEWATER CIP PROJECT DESCRIPTION

Project Name: Archstone Apartment Meters (Increase)

Project Cost: \$15,000 (total project cost \$90,000)

Project Location: Archstone Apartments

Project Description: Provide individual building meters to an apartment complex that is served by a single large meter.

Project Schedule: Planned for 2008, delayed from prior CIP.

Project Justification: Allows more accurate billing of water consumption and leak detection.

Description of M&O Cost: No significant change in maintenance and operation costs.

	2005	2006	2007	2008	2009	2010	Total 2005-2010
Total Project Cost			\$15,000				\$15,000
<u>Total Project Revenues:</u>							
W/WW CIP - Increase			\$15,000				\$15,000
<u>Ongoing M&O Costs:</u>							
<i>Staffing:</i>							
Number of FTEs	0.00						0.00
Salary/Benefit Costs	\$0						\$0
Operating Costs	0						0
Total Ongoing M&O	\$0	\$0	\$0	\$0	\$0	\$0	\$0

WATER/WASTEWATER CIP PROJECT DESCRIPTION

Project Name:	General Sewer System Plan Update
Project Cost:	\$300,000
Project Location:	Citywide
Project Description:	Sewer Facility Plan. Current Sewer Plan Update costs increased, requiring an additional \$50,000 in 2005. New 6-year update cycle begins in 2009 at an anticipated cost of \$250,000.
Project Schedule:	Review and update plan on a 6-year cycle.
Project Justification:	Good practice and required by state and local regulations.
Description of M&O Cost:	Utility engineering staff hours are allocated to managing these studies, and maintaining the mapping and hydraulic analysis programs that support the Plan.

	2005	2006	2007	2008	2009	2010	Total 2005-2010
Total Project Cost	\$50,000				\$100,000	\$150,000	\$300,000
<u>Total Project Revenues:</u>							
W/WW CIP	\$50,000				\$100,000	\$150,000	\$300,000
<u>Ongoing M&O Costs:</u>							
<i>Staffing:</i>							
Number of FTEs	0.00						0.00
Salary/Benefit Costs	\$0						\$0
Operating Costs	0						0
Total Ongoing M&O	\$0	\$0	\$0	\$0	\$0	\$0	\$0

INCREASE – WATER/WASTEWATER CIP PROJECT DESCRIPTION

Project Name:	116 th Sewer Replacement (York Bridge) (Increase)
Project Cost:	\$75,000 (total project cost \$375,000)
Project Location:	116 th and the Sammamish River
Project Description:	Replace an existing sewer that is in the way of the new bridge abutment and retaining walls.
Project Schedule:	Timed coincident with the York Bridge Project.
Project Justification:	Sewer needs to be moved away from the Bridge walls.
Description of M&O Cost:	Access to sewer will be more difficult because of the bridge structure but there is no additional staff or cost required to maintain this relocated sewer.

	2005	2006	2007	2008	2009	2010	Total 2005-2010
Total Project Cost	\$75,000						\$75,000
<u>Total Project Revenues:</u>							
W/WW CIP - Increase	\$75,000						\$75,000
<u>Ongoing M&O Costs:</u>							
<i>Staffing:</i>							
Number of FTEs	0.00						0.00
Salary/Benefit Costs	\$0						\$0
Operating Costs	0						0
Total Ongoing M&O	\$0	\$0	\$0	\$0	\$0	\$0	\$0

INCREASE – WATER/WASTEWATER CIP PROJECT DESCRIPTION

Project Name: Sewer Rehabilitation Phase 2 (Increase)

Project Cost: \$60,000 (total project cost \$350,000)

Project Location: Various

Project Description: Rehabilitate existing sewers.

Project Schedule: Planned for 2006.

Project Justification: Repair or replace defects in the sewer system discovered during television inspections.

Description of M&O Cost: No increase in costs; repair of existing facilities.

	2005	2006	2007	2008	2009	2010	Total 2005-2010
Total Project Cost		\$60,000					\$60,000
<u>Total Project Revenues:</u>							
W/WW CIP - Increase		\$60,000					\$60,000
<u>Ongoing M&O Costs:</u>							
<i>Staffing:</i>							
Number of FTEs	0.00						0.00
Salary/Benefit Costs	\$0						\$0
Operating Costs	0						0
Total Ongoing M&O	\$0	\$0	\$0	\$0	\$0	\$0	\$0

INCREASE – WATER/WASTEWATER CIP PROJECT DESCRIPTION

Project Name:	Generator Replacement Project (Increase)
Project Cost:	\$120,000 (total project cost \$300,000)
Project Location:	Various sewer pump stations.
Project Description:	Planned replacement of generators at sewer pump stations that were installed in the mid-1980s.
Project Schedule:	Project has been delayed from previous CIP. Will continue to monitor equipment functionality to determine appropriate time to replace the generators.
Project Justification:	Mechanical equipment like generators wear out and become more expensive to repair than to replace.
Description of M&O Cost:	No increase in FTEs required; replacement of existing facilities.

	2005	2006	2007	2008	2009	2010	Total 2005-2010
Total Project Cost						\$120,000	\$120,000
<u>Total Project Revenues:</u>							
W/WW CIP - Increase						\$120,000	\$120,000
<u>Ongoing M&O Costs:</u>							
<i>Staffing:</i>							
Number of FTEs	0.00						0.00
Salary/Benefit Costs	\$0						\$0
Operating Costs	0						0
Total Ongoing M&O	\$0	\$0	\$0	\$0	\$0	\$0	\$0